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| L6 and L5 | 20        |

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 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

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L7

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### Search History

DATE: Tuesday, March 23, 2004   [Printable Copy](#)   [Create Case](#)

Set Name Query

side by side

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result set

DB=USPT; PLUR=YES; OP=OR

|           |                               |       |           |
|-----------|-------------------------------|-------|-----------|
| <u>L7</u> | L6 and L5                     | 20    | <u>L7</u> |
| <u>L6</u> | carney.in.                    | 747   | <u>L6</u> |
| <u>L5</u> | L1 adj cartilage regeneration | 47217 | <u>L5</u> |
| <u>L4</u> | l1 and cartilage regeneration | 47271 | <u>L4</u> |
| <u>L3</u> | l1 and (TP508)                | 0     | <u>L3</u> |
| <u>L2</u> | TP508                         | 0     | <u>L2</u> |
| <u>L1</u> | PLGA                          | 744   | <u>L1</u> |

END OF SEARCH HISTORY

## Hit List

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| Generate OACS |                     |       |          |           |

### Search Results - Record(s) 1 through 10 of 20 returned.

☐ 1. Document ID: US 6630572 B1

L7: Entry 1 of 20

File: USPT

Oct 7, 2003

US-PAT-NO: 6630572

DOCUMENT-IDENTIFIER: US 6630572 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Thrombin derived polypeptides: compositions and methods for use

DATE-ISSUED: October 7, 2003

INVENTOR-INFORMATION:

| NAME                       | CITY             | STATE | ZIP CODE | COUNTRY |
|----------------------------|------------------|-------|----------|---------|
| <u>Carney</u> ; Darrell H. | Dickinson        | TX    |          |         |
| Glenn; Kevin C.            | Maryland Heights | MO    |          |         |

US-CL-CURRENT: 530/327; 530/324, 530/325, 530/326, 530/328

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 2. Document ID: US 6627731 B1

L7: Entry 2 of 20

File: USPT

Sep 30, 2003

US-PAT-NO: 6627731

DOCUMENT-IDENTIFIER: US 6627731 B1

TITLE: Thrombin derived polypeptides; compositions and methods for use

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

| NAME                       | CITY      | STATE | ZIP CODE | COUNTRY |
|----------------------------|-----------|-------|----------|---------|
| <u>Carney</u> ; Darrell H. | Galveston | TX    |          |         |
| Glenn; Kevin C.            | St. Louis | MO    |          |         |

US-CL-CURRENT: 530/330; 424/94.64, 530/324, 530/325, 530/326, 530/327, 530/328, 530/329

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 3. Document ID: US 6436231 B1

L7: Entry 3 of 20

File: USPT

Aug 20, 2002

US-PAT-NO: 6436231

DOCUMENT-IDENTIFIER: US 6436231 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and apparatus for crosslinking individualized cellulose fibers

DATE-ISSUED: August 20, 2002

## INVENTOR-INFORMATION:

| NAME                 | CITY       | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| Graef; Peter A.      | Tacoma     | WA    |          |         |
| Elston; Colin        | Gig Harbor | WA    |          |         |
| Olmstead; Fred E.    | Tacoma     | WA    |          |         |
| Bolstad; Clifford R. | Milton     | WA    |          |         |
| Bowns; Mark W.       | Auburn     | WA    |          |         |
| Hunter; Frank R.     | Bellevue   | WA    |          |         |
| Carney; Allan R.     | Puyallup   | WA    |          |         |

US-CL-CURRENT: 162/9; 162/146

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-------------|--------|------|---------|
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☐ 4. Document ID: US 6342655 B1

L7: Entry 4 of 20

File: USPT

Jan 29, 2002

US-PAT-NO: 6342655

DOCUMENT-IDENTIFIER: US 6342655 B1

TITLE: Plants resistant to WT strains of cucumber mosaic virus

DATE-ISSUED: January 29, 2002

## INVENTOR-INFORMATION:

| NAME                 | CITY     | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Boeshore; Maury L.   | Wauconda | IL    |          |         |
| McMaster; J. Russell | Kenosha  | WI    |          |         |
| Tricoli; David M.    | Davis    | CA    |          |         |
| Reynolds; John F.    | Davis    | CA    |          |         |
| Carney; Kim J.       | Davis    | CA    |          |         |

US-CL-CURRENT: 800/280; 435/252.2, 435/252.3, 435/320.1, 435/414, 435/419, 435/430,  
435/469, 435/475, 435/69.1, 536/23.72, 536/24.1, 800/288, 800/294, 800/301,  
800/307, 800/317

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Abstract | Claims | KWMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|----------|--------|------|----------|
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☐ 5. Document ID: US 6337431 B1

L7: Entry 5 of 20

File: USPT

Jan 8, 2002

US-PAT-NO: 6337431

DOCUMENT-IDENTIFIER: US 6337431 B1

TITLE: Transgenic plants expressing DNA constructs containing a plurality of genes to impart virus resistance

DATE-ISSUED: January 8, 2002

## INVENTOR-INFORMATION:

| NAME                 | CITY      | STATE | ZIP CODE | COUNTRY |
|----------------------|-----------|-------|----------|---------|
| Tricoli; David M     | Davis     | CA    |          |         |
| Carney; Kim J.       | Davis     | CA    |          |         |
| Russell; Paul F.     | Portage   | MI    |          |         |
| Quemada; Hector D.   | Kalamazoo | MI    |          |         |
| McMaster; Russell J. | Kenosha   | WI    |          |         |
| Reynolds; John F.    | Davis     | CA    |          |         |
| Deng; Rosaline Z.    | Oceanside | CA    |          |         |

US-CL-CURRENT: 800/280; 435/320.1, 435/419, 435/468, 435/469, 800/288, 800/294, 800/301, 800/317

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Abstract | Claims | KWMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|----------|--------|------|----------|
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☐ 6. Document ID: US 6127601 A

L7: Entry 6 of 20

File: USPT

Oct 3, 2000

US-PAT-NO: 6127601

DOCUMENT-IDENTIFIER: US 6127601 A

TITLE: Plants resistant to C strains of cucumber mosaic virus

DATE-ISSUED: October 3, 2000

## INVENTOR-INFORMATION:

| NAME                 | CITY     | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Boeshore; Maury L.   | Wauconda | IL    |          |         |
| McMaster; Russell J. | Kenosha  | WI    |          |         |
| Tricoli; David M.    | Davis    | CA    |          |         |
| Reynolds; John F.    | Davis    | CA    |          |         |
| Carney; Kim J.       | Davis    | CA    |          |         |

US-CL-CURRENT: 800/280; 435/252.3, 435/320.1, 435/414, 435/419, 435/430, 435/469,

435/475, 435/69.1, 536/23.72, 800/288 , 800/294, 800/301, 800/307, 800/317

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Attachments | Attachments | Claims | KWIC | Drawings |
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☐ 7. Document ID: US 6046384 A

L7: Entry 7 of 20

File: USPT

Apr 4, 2000

US-PAT-NO: 6046384

DOCUMENT-IDENTIFIER: US 6046384 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Papaya ringspot virus NIa protease gene

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

| NAME                   | CITY      | STATE | ZIP CODE | COUNTRY |
|------------------------|-----------|-------|----------|---------|
| McMaster; J. Russell   | Kenosha   | WI    |          |         |
| Boeshore; Maury L.     | Wauconda  | IL    |          |         |
| Tricoli; David M.      | Davis     | CA    |          |         |
| Reynolds; John F.      | Davis     | CA    |          |         |
| <u>Carney</u> ; Kim J. | Davis     | CA    |          |         |
| Slighton; Jerry L.     | Kalamazoo | MI    |          |         |
| Gonsalves; Dennis      | Geneva    | NY    |          |         |

US-CL-CURRENT: 800/279; 435/252.3, 435/320.1, 435/468, 435/469, 536/23.2,  
536/23.72, 536/24.1, 800/288, 800/294

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Attachments | Attachments | Claims | KWIC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-------------|-------------|--------|------|----------|
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☐ 8. Document ID: US 6015942 A

L7: Entry 8 of 20

File: USPT

Jan 18, 2000

US-PAT-NO: 6015942

DOCUMENT-IDENTIFIER: US 6015942 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Transgenic plants exhibiting heterologous virus resistance

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

| NAME                   | CITY    | STATE | ZIP CODE | COUNTRY |
|------------------------|---------|-------|----------|---------|
| Tricoli; David M       | Davis   | CA    |          |         |
| <u>Carney</u> ; Kim J. | Davis   | CA    |          |         |
| Russell; Paul F.       | Portage | MI    |          |         |

US-CL-CURRENT: 800/280; 435/419, 435/468, 800/301, 800/308

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Attachments | Claims | KM/C | Draw D |
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☐ 9. Document ID: US 6005166 A

L7: Entry 9 of 20

File: USPT

Dec 21, 1999

US-PAT-NO: 6005166

DOCUMENT-IDENTIFIER: US 6005166 A

TITLE: Papaya ringspot virus replicase gene

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

| NAME                 | CITY     | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| McMaster; J. Russell | Kenosha  | WI    |          |         |
| Boeshore; Maury L.   | Wauconda | IL    |          |         |
| Tricoli; David M.    | Davis    | CA    |          |         |
| Reynolds; John F.    | Davis    | CA    |          |         |
| Carney; Kim J.       | Davis    | CA    |          |         |

US-CL-CURRENT: 800/280; 435/320.1, 435/419, 435/469, 435/476, 536/23.72, 800/288,  
800/294, 800/301

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Attachments | Claims | KM/C | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-------------|--------|------|--------|

☐ 10. Document ID: US 6002072 A

L7: Entry 10 of 20

File: USPT

Dec 14, 1999

US-PAT-NO: 6002072

DOCUMENT-IDENTIFIER: US 6002072 A

TITLE: Coat protein gene for the FLA83 W strain of papaya ringspot virus

DATE-ISSUED: December 14, 1999

## INVENTOR-INFORMATION:

| NAME                 | CITY     | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| McMaster; Russell J. | Kenosha  | WI    |          |         |
| Boeshore; Maury L.   | Wauconda | IL    |          |         |
| Tricoli; David M.    | Davis    | CA    |          |         |
| Reynolds; John F.    | Davis    | CA    |          |         |
| Carney; Kim J.       | Davis    | CA    |          |         |
| Gonsalves; Dennis    | Geneva   | NY    |          |         |

US-CL-CURRENT: 800/301; 435/252.2, 435/252.3, 435/320.1, 435/419, 536/23.72,  
800/280

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Attachments | Claims | KWC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-------------|--------|-----|----------|
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| Terms     | Documents |
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### Search Results - Record(s) 11 through 20 of 20 returned.

☐ 11. Document ID: US 5998702 A

L7: Entry 11 of 20

File: USPT

Dec 7, 1999

US-PAT-NO: 5998702

DOCUMENT-IDENTIFIER: US 5998702 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Transgenic plants expressing ACC synthase gene

DATE-ISSUED: December 7, 1999

## INVENTOR-INFORMATION:

| NAME                   | CITY      | STATE | ZIP CODE | COUNTRY |
|------------------------|-----------|-------|----------|---------|
| Boeshore; Maury L.     | Wauconda  | IL    |          |         |
| Deng; Rosaline Z.      | Oceanside | CA    |          |         |
| <u>Carney</u> ; Kim J. | Davis     | CA    |          |         |
| Ruttencutter; Glen E.  | DeForest  | WI    |          |         |
| Reynolds; John F.      | Davis     | CA    |          |         |

US-CL-CURRENT: 800/306; 435/252.2, 435/252.3, 435/320.1, 435/419, 536/23.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Expendable | Attachment | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|------------|------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|------------|------------|--------|------|---------|

☐ 12. Document ID: US 5941233 A

L7: Entry 12 of 20

File: USPT

Aug 24, 1999

US-PAT-NO: 5941233

DOCUMENT-IDENTIFIER: US 5941233 A

TITLE: Indirect-fired heater with regeneration reclaim rotary heat exchanges

DATE-ISSUED: August 24, 1999

## INVENTOR-INFORMATION:

| NAME                     | CITY           | STATE | ZIP CODE | COUNTRY |
|--------------------------|----------------|-------|----------|---------|
| Grinols; Daniel L.       | Eagan          | MN    |          |         |
| <u>Carney</u> ; Craig L. | South St. Paul | MN    |          |         |
| Prekker; Ronald J.       | Independence   | MN    |          |         |



US-CL-CURRENT: 126/110R; 126/116R

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Regulation | Attachment | Claims | KMMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|------------|------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|------------|------------|--------|------|---------|

☐ 13. Document ID: US 5877403 A

L7: Entry 13 of 20

File: USPT

Mar 2, 1999

US-PAT-NO: 5877403

DOCUMENT-IDENTIFIER: US 5877403 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Papaya ringspot virus protease gene

DATE-ISSUED: March 2, 1999

## INVENTOR-INFORMATION:

| NAME                   | CITY      | STATE | ZIP CODE | COUNTRY |
|------------------------|-----------|-------|----------|---------|
| McMaster; J. Russell   | Galesburg | MI    |          |         |
| Boeshore; Maury L.     | Kalamazoo | MI    |          |         |
| Tricoli; David M.      | Kalamazoo | MI    |          |         |
| Reynolds; John F.      | Augusta   | MI    |          |         |
| <u>Carney</u> ; Kim J. | Richland  | MI    |          |         |
| Slightom; Jerry L.     | Kalamazoo | MI    |          |         |
| Gonsalves; Dennis      | Geneva    | NY    |          |         |

US-CL-CURRENT: 800/279; 435/252.3, 435/255.2, 435/320.1, 435/419, 435/430,  
536/23.72, 800/301, 800/310

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Regulation | Attachment | Claims | KMMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|------------|------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|------------|------------|--------|------|---------|

☐ 14. Document ID: US 5692299 A

L7: Entry 14 of 20

File: USPT

Dec 2, 1997

US-PAT-NO: 5692299

DOCUMENT-IDENTIFIER: US 5692299 A

TITLE: Fiber optic splice closure and associated methods

DATE-ISSUED: December 2, 1997

## INVENTOR-INFORMATION:

| NAME                               | CITY        | STATE | ZIP CODE | COUNTRY |
|------------------------------------|-------------|-------|----------|---------|
| Daems; Daniel Francois             | Gravenwezel |       |          | BE      |
| Holman; John Randolph              | Atlanta     | GA    |          |         |
| Claunch, II; <u>Carney</u> Preston | Cary        | NC    |          |         |
| Wilcox; Edward Jackson             | McDonald    | PA    |          |         |

US-CL-CURRENT: 29/869; 29/402.09, 29/868

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachments | Claims | KMMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|

☐ 15. Document ID: US 5500412 A

L7: Entry 15 of 20

File: USPT

Mar 19, 1996

US-PAT-NO: 5500412

DOCUMENT-IDENTIFIER: US 5500412 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Thrombin derived polypeptides; compositions and methods for use

DATE-ISSUED: March 19, 1996

## INVENTOR-INFORMATION:

| NAME                       | CITY             | STATE | ZIP CODE | COUNTRY |
|----------------------------|------------------|-------|----------|---------|
| <u>Carney</u> ; Darrell H. | Dickinson        | TX    | 77539    |         |
| Glenn; Kevin C.            | Maryland Heights | MO    | 63043    |         |

US-CL-CURRENT: 514/13; 530/326

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachments | Claims | KMMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|

☐ 16. Document ID: US 5479553 A

L7: Entry 16 of 20

File: USPT

Dec 26, 1995

US-PAT-NO: 5479553

DOCUMENT-IDENTIFIER: US 5479553 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Fiber optic splice closure

DATE-ISSUED: December 26, 1995

## INVENTOR-INFORMATION:

| NAME                          | CITY        | STATE | ZIP CODE | COUNTRY |
|-------------------------------|-------------|-------|----------|---------|
| Daems; Daniel F.              | Gravenwezel |       |          | BE      |
| Holman; John R.               | Atlanta     | GA    |          |         |
| Claunch, II; <u>Carney</u> P. | Cary        | NC    |          |         |
| Wilcox; Edward J.             | McDonald    | PA    |          |         |

US-CL-CURRENT: 385/135

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachments | Claims | KMMC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|---------|

☐ 17. Document ID: US 5437418 A

L7: Entry 17 of 20

File: USPT

Aug 1, 1995

US-PAT-NO: 5437418

DOCUMENT-IDENTIFIER: US 5437418 A

TITLE: Apparatus for crosslinking individualized cellulose fibers

DATE-ISSUED: August 1, 1995

## INVENTOR-INFORMATION:

| NAME                 | CITY       | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| Graef; Peter A.      | Tacoma     | WA    |          |         |
| Elston; Colin        | Gig Harbor | WA    |          |         |
| Olmstead; Fred E.    | Tacoma     | WA    |          |         |
| Bolstad; Clifford R. | Milton     | WA    |          |         |
| Bowns; Mark W.       | Auburn     | WA    |          |         |
| Hunter; Frank R.     | Bellevue   | WA    |          |         |
| Carney; Allan R.     | Puyallup   | WA    |          |         |

US-CL-CURRENT: 241/65; 241/152.2

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstracts | Attachments | Claims | KWMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 18. Document ID: US 5352664 A

L7: Entry 18 of 20

File: USPT

Oct 4, 1994

US-PAT-NO: 5352664

DOCUMENT-IDENTIFIER: US 5352664 A

TITLE: Thrombin derived polypeptides; compositions and methods for use

DATE-ISSUED: October 4, 1994

## INVENTOR-INFORMATION:

| NAME               | CITY      | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Carney; Darrell H. | Galveston | TX    |          |         |
| Glenn; Kevin C.    | St. Louis | MO    |          |         |

US-CL-CURRENT: 514/13; 424/94.64, 435/214, 530/326

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstracts | Attachments | Claims | KWMC | Draw. De |
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☐ 19. Document ID: US 5206200 A

L7: Entry 19 of 20

File: USPT

Apr 27, 1993

US-PAT-NO: 5206200

DOCUMENT-IDENTIFIER: US 5206200 A

TITLE: Tin catalysts for hydrolysis of latent amine curing agents

DATE-ISSUED: April 27, 1993

## INVENTOR-INFORMATION:

| NAME                      | CITY       | STATE | ZIP CODE | COUNTRY |
|---------------------------|------------|-------|----------|---------|
| Bush; Richard W.          | Columbia   | MD    |          |         |
| <u>Carney</u> ; Eugene E. | Sykesville | MD    |          |         |

US-CL-CURRENT: 502/167; 502/170

|      |       |          |       |        |                |      |           |  |  |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 20. Document ID: US 4983511 A

L7: Entry 20 of 20

File: USPT

Jan 8, 1991

US-PAT-NO: 4983511

DOCUMENT-IDENTIFIER: US 4983511 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and kit for detecting live microorganisms in chlorine- or bromine-treated water

DATE-ISSUED: January 8, 1991

## INVENTOR-INFORMATION:

| NAME                     | CITY          | STATE | ZIP CODE | COUNTRY |
|--------------------------|---------------|-------|----------|---------|
| Geiger; Jon R.           | West Hartford | CT    |          |         |
| <u>Carney</u> ; Jayne F. | Wolcott       | CT    |          |         |
| Roberts; Katherine P.    | Derby         | CT    |          |         |

US-CL-CURRENT: 435/6; 435/259, 435/29, 435/34, 436/164, 436/172, 436/501, 436/94

|      |       |          |       |        |                |      |           |  |  |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |  |  | Claims | KWIC | Draw De |
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| NEWS | 15      | DEC 18 | BIOTECHNO no longer updated  |
| NEWS | 16      | DEC 19 | CROPU no longer updated; subscriber discount no longer available   |
| NEWS | 17      | DEC 22 | Additional INPI reactions and pre-1907 documents added to CAS databases  |
| NEWS | 18      | DEC 22 | IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields  |
| NEWS | 19      | DEC 22 | ABI-INFORM now available on STN  |
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| NEWS | 21      | JAN 27 | A new search aid, the Company Name Thesaurus, available in CA/CAPLUS   |
| NEWS | 22      | FEB 05 | German (DE) application and patent publication number format changes   |
| NEWS | 23      | MAR 03 | MEDLINE and LMedline reloaded  |
| NEWS | 24      | MAR 03 | MEDLINE file segment of TOXCENTER reloaded   |
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=> s cartilage adj2 PLGA  
L1 0 CARTILAGE ADJ2 PLGA

=> s PLGA  
L2 6544 PLGA

=> s TP508  
L3 56 TP508

=> s l3 and l2  
L4 11 L3 AND L2

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 11 MEDLINE on STN  
TI Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.  
AB Poly(D,L-lactic-co-glycolic acid)/poly(ethylene glycol) (PLGA /PEG) blend microparticles loaded with the osteogenic peptide TP508 were added to a mixture of poly(propylene fumarate) (PPF), poly(propylene fumarate)-diacrylate (PPF-DA), and sodium chloride (NaCl) for the fabrication of PPF composite scaffolds that could allow for tissue ingrowth as well as for the controlled release of TP508 when implanted in an orthopedic defect site. In this study, PPF composites were fabricated and the in vitro release kinetics of TP508 were determined. TP508 loading within the PLGA/PEG

microparticles, PEG content within the **PLGA**/PEG microparticles, the microparticle content of the PPF composite polymer component, and the leachable porogen initial mass percent of the PPF composites were varied according to a fractional factorial design and the effect of each variable on the release kinetics was determined for up to 28 days. Each composite formulation released **TP508** with a unique release profile. The initial release (release through day 1) of the **PLGA**/PEG microparticles was reduced upon inclusion in the PPF composite formulations. Day 1 normalized cumulative mass release from PPF composites ranged from 0.14+/-0.01 to 0.41+/-0.01, whereas the release from **PLGA**/PEG microparticles ranged from 0.31+/-0.02 to 0.58+/-0.01. After 28 days, PPF composites released 53+/-4% to 86+/-2% of the entrapped peptide resulting in cumulative mass releases ranging from 0.14+/-0.01 microg **TP508**/mm(3) scaffold to 2.46+/-0.05 microg **TP508**/mm(3) scaffold. The results presented here demonstrate that PPF composites can be used for the controlled release of **TP508** and that alterations in the composite's composition can lead to modulation of the **TP508** release kinetics. These composites can be used to explore the effects varied release kinetics and dosages on the formation of bone in vivo.

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ACCESSION NUMBER: 2003004378 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12468217  
TITLE: Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.  
AUTHOR: Hedberg Elizabeth L; Tang Andrew; Crowther Roger S; Carney Darrell H; Mikos Antonios G  
CORPORATE SOURCE: Department of Bioengineering, Rice University, PO Box 1892, MS-142, Houston, TX 77251-1892, USA.  
CONTRACT NUMBER: R01-AR44381 (NIAMS)  
R01-DE13031 (NIDCR)  
T32-GM08362 (NIGMS)  
SOURCE: Journal of controlled release : official journal of the Controlled Release Society, (2002 Dec 5) 84 (3) 137-50. Journal code: 8607908. ISSN: 0168-3659.  
PUB. COUNTRY: Netherlands  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals; Space Life Sciences  
ENTRY MONTH: 200306  
ENTRY DATE: Entered STN: 20030105  
Last Updated on STN: 20030628  
Entered Medline: 20030627

L4 ANSWER 2 OF 11 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.  
AB Poly(D,L-lactic-co-glycolic acid)/poly(ethylene glycol) (**PLGA**/PEG) blend microparticles loaded with the osteogenic peptide **TP508** were added to a mixture of poly(propylene fumarate) (PPF), poly(propylene fumarate)-diacrylate (PPF-DA), and sodium chloride (NaCl) for the fabrication of PPF composite scaffolds that could allow for tissue ingrowth as well as for the controlled release of **TP508** when implanted in an orthopedic defect site. In this study, PPF composites were fabricated and the in vitro release kinetics of **TP508** were determined. **TP508** loading within the **PLGA**/PEG microparticles, PEG content within the **PLGA**/PEG microparticles, the microparticle content of the PPF composite polymer component, and the leachable porogen initial mass percent of the PPF composites were varied according to a fractional factorial design and the effect of each variable on the release kinetics was determined for up to 28 days. Each composite formulation released **TP508** with a unique release profile. The initial release (release through day 1) of the **PLGA**/PEG microparticles was reduced upon inclusion in the PPF composite

formulations. Day 1 normalized cumulative mass release from PPF composites ranged from 0.14±0.01 to 0.41±0.01, whereas the release from **PLGA**/PEG microparticles ranged from 0.31±0.02 to 0.58±0.01. After 28 days, PPF composites released 53±4% to 86±2% of the entrapped peptide resulting in cumulative mass releases ranging from 0.14±0.01 µg **TP508**/mm<sup>3</sup> scaffold to 2.46±0.05 µg **TP508**/mm<sup>3</sup> scaffold. The results presented here demonstrate that PPF composites can be used for the controlled release of **TP508** and that alterations in the composite's composition can lead to modulation of the **TP508** release kinetics. These composites can be used to explore the effects varied release kinetics and dosages on the formation of bone in vivo.

ACCESSION NUMBER: 2003:121275 BIOSIS  
 DOCUMENT NUMBER: PREV200300121275  
 TITLE: Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.  
 AUTHOR(S): Hedberg, Elizabeth L.; Tang, Andrew; Crowther, Roger S.; Carney, Darrell H.; Mikos, Antonios G. [Reprint Author]  
 CORPORATE SOURCE: Department of Bioengineering, Rice University, P.O. Box 1892, MS-142, Houston, TX, 77251-1892, USA mikos@rice.edu  
 SOURCE: Journal of Controlled Release, (5 December 2002) Vol. 84, No. 3, pp. 137-150. print. ISSN: 0168-3659 (ISSN print).  
 DOCUMENT TYPE: Article  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 5 Mar 2003  
 Last Updated on STN: 5 Mar 2003

L4 ANSWER 3 OF 11 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

TI Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.

AB Poly(D,L-lactic-co-glycolic acid)/poly(ethylene glycol) (**PLGA**/PEG) blend microparticles loaded with the osteogenic peptide **TP508** were added to a mixture of poly(propylene fumarate) (PPF), poly(propylene fumarate)-diacrylate (PPF-DA), and sodium chloride (NaCl) for the fabrication of PPF composite scaffolds that could allow for tissue ingrowth as well as for the controlled release of **TP508** when implanted in an orthopedic defect site. In this study, PPF composites were fabricated and the in vitro release kinetics of **TP508** were determined. **TP508** loading within the **PLGA**/PEG microparticles, PEG content within the **PLGA**/PEG microparticles, the microparticle content of the PPF composite polymer component, and the leachable porogen initial mass percent of the PPF composites were varied according to a fractional factorial design and the effect of each variable on the release kinetics was determined for up to 28 days. Each composite formulation released **TP508** with a unique release profile. The initial release (release through day 1) of the **PLGA**/PEG microparticles was reduced upon inclusion in the PPF composite formulations. Day 1 normalized cumulative mass release from PPF composites ranged from 0.14±0.01 to 0.41±0.01, whereas the release from **PLGA**/PEG microparticles ranged from 0.31±0.02 to 0.58±0.01. After 28 days, PPF composites released 53±4% to 86±2% of the entrapped peptide resulting in cumulative mass releases ranging from 0.14±0.01 µg **TP508**/mm<sup>3</sup> scaffold to 2.46±0.05 µg **TP508**/mm<sup>3</sup> scaffold. The results presented here demonstrate that PPF composites can be used for the controlled release of **TP508** and that alterations in the composite's composition can lead to modulation of the **TP508** release kinetics. These composites can be used to explore the effects varied release kinetics and dosages on the formation of bone in vivo. .COPYRGT. Elsevier Science B.V. All rights reserved.

ACCESSION NUMBER: 2002446418 EMBASE  
 TITLE: Controlled release of an osteogenic peptide from injectable biodegradable polymeric composites.



AUTHOR: Hedberg E.L.; Tang A.; Crowther R.S.; Carney D.H.; Mikos A.G.  
 CORPORATE SOURCE: A.G. Mikos, Department of Bioengineering, Rice University, MS-142, P.O. Box 1892, Houston, TX 77251-1892, United States. mikos@rice.edu  
 SOURCE: Journal of Controlled Release, (5 Dec 2002) 84/3 (137-150). Refs: 39  
 ISSN: 0168-3659 CODEN: JCREEC  
 PUBLISHER IDENT.: S 0168-3659(02)00261-4  
 COUNTRY: Netherlands  
 DOCUMENT TYPE: Journal; Article  
 FILE SEGMENT: 037 Drug Literature Index  
 039 Pharmacy  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English

L4 ANSWER 4 OF 11 USPATFULL on STN

TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
 AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:344424 USPATFULL  
 TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
 INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
 Crowther, Roger S., League City, TX, UNITED STATES  
 Stiernberg, Janet, Paris, TX, UNITED STATES  
 Bergmann, John, Galveston, TX, UNITED STATES  
 PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2002198154  | A1   | 20021226      |
| APPLICATION INFO.:    | US 2002-50688  | A1   | 20020116 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-909348, filed on 19 Jul 2001, PENDING |      |               |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-219800P  | 20000720 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133 |               |
| NUMBER OF CLAIMS:     | 28   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| LINE COUNT:           | 862  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 11 USPATFULL on STN

TI Methods of therapy with thrombin derived peptides  
 AB The present invention relates to a method for promoting cardiac tissue repair comprising administering to the cardiac tissue a therapeutically

effective amount of an angiogenic thrombin derivative peptide and/or inhibiting or reducing vascular occlusion or restenosis. The invention also relates to methods of stimulating revascularization. In yet another embodiment, the invention relates to the use of thrombin derivative peptides in the manufacture of a medicament for the methods described herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:330250 USPATFULL  
TITLE: Methods of therapy with thrombin derived peptides  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2002187933  | A1   | 20021212      |
| APPLICATION INFO.:    | US 2002-50611  | A1   | 20020116 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-904090, filed on 12 Jul 2001, PENDING |      |               |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-217583P  | 20000712 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133 |               |
| NUMBER OF CLAIMS:     | 28   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| NUMBER OF DRAWINGS:   | 2 Drawing Page(s)  |               |
| LINE COUNT:           | 716  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 11 USPATFULL on STN  
TI Stimulation of bone growth with thrombin peptide derivatives  
AB Disclosed is a method of stimulating bone growth at a site in a subject in need of osteoinduction. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:322044 USPATFULL  
TITLE: Stimulation of bone growth with thrombin peptide derivatives  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Simmons, David J., St. Louis, MO, UNITED STATES  
Yang, Jinping, Galveston, TX, UNITED STATES  
Redin, William R., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2002182205  | A1   | 20021205      |
| APPLICATION INFO.:    | US 2002-50692  | A1   | 20020116 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-909122, filed on 19 Jul 2001, PENDING |      |               |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-219300P | 20000719 (60) |
| DOCUMENT TYPE:        | Utility         |               |

FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA  
ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133  
NUMBER OF CLAIMS: 46  
EXEMPLARY CLAIM: 1  
LINE COUNT: 846  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 11 USPATFULL on STN  
TI Stimulation of bone growth with thrombin peptide derivatives  
AB Disclosed is a method of stimulating bone growth at a site in a subject  
in need of osteoinduction. The method comprises the step of  
administering a therapeutically effective amount of an agonist of the  
non-proteolytically activated thrombin receptor to the site.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:236005 USPATFULL  
TITLE: Stimulation of bone growth with thrombin peptide  
derivatives  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Simmons, David J., St. Louis, MO, UNITED STATES  
Yang, Jinping, Galveston, TX, UNITED STATES  
Redin, William R., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of TX. System  
(U.S. corporation)

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002128202  | A1   | 20020912     |
| APPLICATION INFO.:  | US 2001-909122 | A1   | 20010719 (9) |

|                       | NUMBER  | DATE          |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2000-219300P   | 20000719 (60) |
| DOCUMENT TYPE:        | Utility   |               |
| FILE SEGMENT:         | APPLICATION   |               |
| LEGAL REPRESENTATIVE: | Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS,<br>P.C., Two Militia Drive, Lexington, MA, 02421-4799 |               |
| NUMBER OF CLAIMS:     | 37  |               |
| EXEMPLARY CLAIM:      | 1   |               |
| LINE COUNT:           | 797   |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 11 USPATFULL on STN  
TI Methods of therapy with thrombin derived peptides  
AB The present invention relates to a method for promoting cardiac tissue  
repair comprising administering to the cardiac tissue a therapeutically  
effective amount of an angiogenic thrombin derivative peptide and/or  
inhibiting or reducing vascular occlusion or restenosis. The invention  
also relates to methods of stimulating revascularization. In yet another  
embodiment, the invention relates to the use of thrombin derivative  
peptides in the manufacture of a medicament for the methods described  
herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:119864 USPATFULL  
TITLE: Methods of therapy with thrombin derived peptides  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of Texas System  
(U.S. corporation)

| NUMBER | KIND  | DATE  |
|--------|-------|-------|
| -----  | ----- | ----- |

PATENT INFORMATION: US 2002061852 A1 20020523  
APPLICATION INFO.: US 2001-904090 A1 20010712 (9)

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-217583P  | 20000712 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS, P.C., Two Militia Drive, Lexington, MA, 02421-4799 |               |
| NUMBER OF CLAIMS:     | 22   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| NUMBER OF DRAWINGS:   | 2 Drawing Page(s)  |               |
| LINE COUNT:           | 683  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 11 USPATFULL on STN  
TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:78716 USPATFULL  
TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Stiernberg, Janet, Paris, TX, UNITED STATES  
Bergmann, John, Galveston, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of Texas System (U.S. corporation)

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002042373  | A1   | 20020411     |
| APPLICATION INFO.:  | US 2001-909348 | A1   | 20010719 (9) |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-219800P  | 20000720 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS, P.C., Two Militia Drive, Lexington, MA, 02421-4799 |               |
| NUMBER OF CLAIMS:     | 21   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| LINE COUNT:           | 836  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Stimulation of bone growth and cartilage formation in e.g. bone graft and arthritic joints involves administration of a thrombin derivative peptide.  
AN 2003-721552 [68] WPIDS  
AB WO2003061690 A UPAB: 20031022  
NOVELTY - Stimulating bone growth, comprising administering a thrombin

derivative peptide, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) a pharmaceutical composition comprising an implant able, biocompatible carrier and a thrombin derivative peptide; and
- (2) culturing chondrocytes in vitro in the presence of a thrombin derivative peptide and further administering the cultured chondrocytes to a cartilage repair or growth site.

ACTIVITY - Osteopathic; Antiarthritic.

MECHANISM OF ACTION - Non-proteolytic thrombin receptor agonist.

Young, male New Zealand rabbits (2-3 kg) (test) with defects in the trochlear groove of the femur were treated with **TP508** (RTM) (thrombin receptor agonist) (10 mg) formulated in polylactic acid/polyglycolic acid (**PLGA**) controlled release microspheres. The control rabbits received **PLGA** microspheres without **TP508** (RTM). After 9 weeks, the test rabbits exhibited a predominantly hyaline matrix with evidence of significant aggrecan content. The repair score for test/control rabbits were: 18.6 plus or minus 1.4/9.4 plus or minus 1.6 respectively.

USE - For stimulating bone growth and cartilage growth or repair in e.g. bone graft, segmental gap in a bone, bone void, at a non-union fracture, arthritic joints, and sites treated for cartilage damage or loss due to traumatic injury, and for culturing chondrocytes in vitro (claimed).

ADVANTAGE - The thrombin derivative peptide improves the quality of repair tissue, leads to more durable and functional restoration of joint bio mechanics, reduces the incidence of osteoarthritis in patients suffering from traumatic cartilage injuries and accelerates the rate of normal fracture healing in fracture or small gap defects.

Dwg.0/0

ACCESSION NUMBER: 2003-721552 [68] WPIDS  
DOC. NO. NON-CPI: N2003-576968  
DOC. NO. CPI: C2003-198446  
TITLE: Stimulation of bone growth and cartilage formation in e.g. bone graft and arthritic joints involves administration of a thrombin derivative peptide.  
DERWENT CLASS: A96 B04 C03 D16 D22 P34  
INVENTOR(S): BERGMANN, J; CARNEY, D H; CROWTHER, R S; REDIN, W R; SIMMONS, D J; STIERNBERG, J; YANG, J  
PATENT ASSIGNEE(S): (TEXA) UNIV TEXAS SYSTEM  
COUNTRY COUNT: 100  
PATENT INFORMATION:

| PATENT NO   | KIND | DATE     | WEEK      | LA | PG |
|---|------|----------|-----------|----|----|
| WO 2003061690   | A1   | 20030731 | (200368)* | EN | 24 |
| RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ<br>NL OA PT SD SE SL SZ TR TZ UG ZM ZW  |      |          |           |    |    |
| W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK<br>DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR<br>KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT<br>RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM<br>ZW |      |          |           |    |    |

APPLICATION DETAILS:

| PATENT NO     | KIND | APPLICATION    | DATE     |
|---------------|------|----------------|----------|
| WO 2003061690 | A1   | WO 2002-US1451 | 20020117 |

PRIORITY APPLN. INFO: WO 2002-US1451 20020117

L4 ANSWER 11 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Promoting cardiac tissue repair, stimulating revascularization,

stimulating vascular endothelial cell proliferation, and inhibiting vascular occlusion by using angiogenic thrombin derivative peptide.

NOVELTY - Promoting cardiac tissue repair or stimulating revascularization, stimulating vascular endothelial cell proliferation, inhibiting restenosis in a patient following balloon angioplasty, and for inhibiting vascular occlusion in a patient by administering an angiogenic thrombin derivative peptide (I) to cardiac tissue or blood vessels.

(I) was tested for vasototropic and cardiact activity. Yucatan minipigs had toroid shaped ameroid occluders placed on their proximal left circumflex arteries. The ameroid imbibed water over time, causing constriction of the vessel. Occlusion was verified four weeks after surgery by contrast enhanced angiography. At that time, each animal's chest was reopened, where upon the region of ischemia was injected with a slow release formulation of **TP508** (100 micro l, i.e., **TP508**-containing poly(D,L-lactide-co-glycolide) (**PLGA**) microspheres, suspended in a Pluronic gel, into 10 sites (100 micro l/site) in the ischemic area. Controls received **PLGA** microspheres in Pluronic gel without **TP508**. Baseline, and post-treatment angiograms and echocardiograms were obtained. Indices for myocardial wall thickening and cardiac ejection fraction showed trends that **TP508** treated animals tolerated dobutamine-induced stress better than controls. After 3 weeks, the animals were evaluated with contrast enhanced echocardiography. Initial results on this limited number of animals demonstrated that **TP508** treated animals under dobutamine stress had a slightly larger increase in ejection fraction and better maintained wall thickening compared to controls. Thus, this treatment appears to help restore functionality to the ischemic heart muscle.

USE - The method utilizing (I) is useful for promoting cardiac tissue repair, stimulating revascularization, stimulating vascular endothelial cell proliferation, inhibiting restenosis in a patient following balloon angioplasty, and for inhibiting vascular occlusion in a patient (claimed).

Dwg. 0/3

| PATENT NO     | KIND DATE   | WEEK     | LA   | PG |
|---------------|---|----------|------|----|
| WO 2002004008 | A2 20020117   | (200223) | * EN | 24 |
| RW:           | AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ |          |      |    |
|               | NL OA PT SD SE SL SZ TR TZ UG ZW                                  |          |      |    |
| W:            | AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK |          |      |    |
|               | DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR |          |      |    |
|               | KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU |          |      |    |
|               | SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW          |          |      |    |
| AU 2001078907 | A 20020121  | (200234) |      |    |
| US 2002061852 | A1 20020523   | (200239) |      |    |
| EP 1253937    | A2 20021106   | (200281) | EN   |    |
| R:            | AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT |          |      |    |
|               | RO SE SI TR   |          |      |    |

US 2002187933 A1 20021212 (200301)  
 EP 1253937 B1 20030910 (200360) EN  
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR  
 DE 60100740 E 20031016 (200376)  
 CN 1455678 A 20031112 (200412)  
 JP 2004502739 W 20040129 (200413) 42

APPLICATION DETAILS:

| PATENT NO     | KIND           | APPLICATION     | DATE     |
|---------------|----------------|-----------------|----------|
| WO 2002004008 | A2             | WO 2001-US21944 | 20010712 |
| AU 2001078907 | A              | AU 2001-78907   | 20010712 |
| US 2002061852 | A1 Provisional | US 2000-217583P | 20000712 |
|               |                | US 2001-904090  | 20010712 |
| EP 1253937    | A2             | EP 2001-957136  | 20010712 |
|               |                | WO 2001-US21944 | 20010712 |
| US 2002187933 | A1 Provisional | US 2000-217583P | 20000712 |
|               | Cont of        | US 2001-904090  | 20010712 |
|               |                | US 2002-50611   | 20020116 |
| EP 1253937    | B1             | EP 2001-957136  | 20010712 |
|               |                | WO 2001-US21944 | 20010712 |
| DE 60100740   | E              | DE 2001-600740  | 20010712 |
|               |                | EP 2001-957136  | 20010712 |
|               |                | WO 2001-US21944 | 20010712 |
| CN 1455678    | A              | CN 2001-815458  | 20010712 |
| JP 2004502739 | W              | WO 2001-US21944 | 20010712 |
|               |                | JP 2002-508462  | 20010712 |

FILING DETAILS:

| PATENT NO     | KIND        | PATENT NO     |
|---------------|-------------|---------------|
| AU 2001078907 | A Based on  | WO 2002004008 |
| EP 1253937    | A2 Based on | WO 2002004008 |
| EP 1253937    | B1 Based on | WO 2002004008 |
| DE 60100740   | E Based on  | EP 1253937    |
|               | Based on    | WO 2002004008 |
| JP 2004502739 | W Based on  | WO 2002004008 |

PRIORITY APPLN. INFO: US 2000-217583P 20000712; US 2001-904090  
 20010712; US 2002-50611 20020116

=> s cartilage near TP508  
 L5 0 CARTILAGE NEAR TP508

=> d his

(FILE 'HOME' ENTERED AT 16:46:15 ON 23 MAR 2004)

FILE 'MEDLINE, BIOSIS, DGENE, EMBASE, FSTA, JICST-EPLUS, BIOBUSINESS,  
 USPATFULL, WPIDS' ENTERED AT 16:48:10 ON 23 MAR 2004

L1 0 S CARTILAGE ADJ2 PLGA  
 L2 6544 S PLGA  
 L3 56 S TP508  
 L4 11 S L3 AND L2  
 L5 0 S CARTILAGE NEAR TP508

=> s RGD adj cartilage  
 L6 0 RGD ADJ CARTILAGE

=> s RGD  
 L7 15193 RGD

```
=> e cartilage/ct
'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'BIOBUSINESS'
ADDITIONAL TERMS AVAILABLE BY USING "CARTILAGE+XUSE/CT"
'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'
```

| E#  | FREQUENCY | AT     | TERM                                |
|-----|-----------|--------|-------------------------------------|
| --  | -----     | --     | ----                                |
| E1  | 1         |        | CARTILADE: DO, DRUG DOSE/CT         |
| E2  | 1         |        | CARTILADE: PD, PHARMACOLOGY/CT      |
| E3  | 42001     | 47 --> | CARTILAGE/CT                        |
| E4  | 1         |        | CARTILAGE A1/CT                     |
| E5  | 1         |        | CARTILAGE ABNORMALITY/CT            |
| E6  | 1         |        | CARTILAGE ACTIVITY/CT               |
| E7  | 4         |        | CARTILAGE AGGRECAN/CT               |
| E8  | 9         |        | CARTILAGE ALLOGRAFT/CT              |
| E9  | 1         |        | CARTILAGE AND BONE DISEASES/CT      |
| E10 | 1         |        | CARTILAGE AND BONE PREPARATION/CT   |
| E11 | 1         |        | CARTILAGE AND/OR BONE DEFECT/CT     |
| E12 | 1         |        | CARTILAGE ANGIOGENESIS INHIBITOR/CT |

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

```
=> s e10
'CT' IS NOT A VALID FIELD CODE
'CT' IS NOT A VALID FIELD CODE
L8      1 "CARTILAGE AND BONE PREPARATION"/CT
```

```
=> s e3
'CT' IS NOT A VALID FIELD CODE
'CT' IS NOT A VALID FIELD CODE
L9      42001 CARTILAGE/CT
```

```
=> d his
```

(FILE 'HOME' ENTERED AT 16:46:15 ON 23 MAR 2004)

FILE 'MEDLINE, BIOSIS, DGENE, EMBASE, FSTA, JICST-EPLUS, BIOBUSINESS, USPATFULL, WPIDS' ENTERED AT 16:48:10 ON 23 MAR 2004

|    |         |                      |
|----|---------|----------------------|
| L1 | 0 S     | CARTILAGE ADJ2 PLGA  |
| L2 | 6544 S  | PLGA                 |
| L3 | 56 S    | TP508                |
| L4 | 11 S    | L3 AND L2            |
| L5 | 0 S     | CARTILAGE NEAR TP508 |
| L6 | 0 S     | RGD ADJ CARTILAGE    |
| L7 | 15193 S | RGD                  |
|    |         | E CARTILAGE/CT       |
| L8 | 1 S     | E10                  |
| L9 | 42001 S | E3                   |

```
=> e TP508/cn
'CN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'USPATFULL'
'CN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'
```

| E# | FREQUENCY | AT  | TERM                          |
|----|-----------|-----|-------------------------------|
| -- | -----     | --  | ----                          |
| E1 | 0         | 2   | TP40/CN                       |
| E2 | 2         |     | TP5/CN                        |
| E3 | 18        | --> | TP508/CN                      |
| E4 | 1         |     | TP53/CN                       |
| E5 | 0         | 2   | TP53-TARGET GENE 5 PRODUCT/CN |
| E6 | 1         |     | TP53AP1 PROTEIN, HUMAN/CN     |
| E7 | 0         | 2   | TP53BPL/CN                    |
| E8 | 8         |     | TP53I3 PROTEIN, HUMAN/CN      |
| E9 | 2         |     | TP53INP1 PROTEIN, HUMAN/CN    |



|     |   |   |                    |
|-----|---|---|--------------------|
| E10 | 0 | 1 | TP53TG1 PROTEIN/CN |
| E11 | 0 | 2 | TP53TG5 PROTEIN/CN |
| E12 | 0 | 2 | TP5MEU/CN          |

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

=> s e3

'CN' IS NOT A VALID FIELD CODE

'CN' IS NOT A VALID FIELD CODE

L10 18 TP508/CN

=> e3

E3 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> e TP508/CT

'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'BIOBUSINESS'

'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'

| E#  | FREQUENCY | AT  | TERM                       |
|-----|-----------|-----|----------------------------|
| --  | -----     | --  | ----                       |
| E1  | 4         |     | TP47/CT                    |
| E2  | 4         | 1   | TP5/CT                     |
| E3  | 18        | --> | TP508/CT                   |
| E4  | 1         |     | TP508 SYNTHETIC PEPTIDE/CT |
| E5  | 125       | 1   | TP53/CT                    |
| E6  | 1         |     | TP53 ACTIVATED FACTOR 1/CT |
| E7  | 1         |     | TP53 BINDING MOTIF/CT      |
| E8  | 1         |     | TP53 DELETED CELL/CT       |
| E9  | 1         |     | TP53 DNA/CT                |
| E10 | 1         |     | TP53 EXON 8/CT             |
| E11 | 138       | 2   | TP53 GENE/CT               |
| E12 | 1         |     | TP53 GENE FRACTION/CT      |

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

=> s E3

'CT' IS NOT A VALID FIELD CODE

'CT' IS NOT A VALID FIELD CODE

L11 18 TP508/CT

=> s cartilage growth or repair

L12 537456 CARTILAGE GROWTH OR REPAIR

=> e cartilage repair/CT

'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'BIOBUSINESS'

'CT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'DGENE'

| E#  | FREQUENCY | AT  | TERM                                   |
|-----|-----------|-----|--|
| --  | -----     | --  | ----                                   |
| E1  | 11        |     | CARTILAGE PROTEOGLYCANS/CT             |
| E2  | 44        |     | CARTILAGE REGENERATION/CT              |
| E3  | 6         | --> | CARTILAGE REPAIR/CT                    |
| E4  | 1         |     | CARTILAGE REPAIR TISSUE/CT             |
| E5  | 1         |     | CARTILAGE REPAIR-ENHANCING ACTIVITY/CT |
| E6  | 0         | 2   | CARTILAGE RESORPTION/CT                |
| E7  | 1         |     | CARTILAGE RESORPTION ASSAY/CT          |
| E8  | 1         |     | CARTILAGE RESORPTION SITE/CT           |
| E9  | 1         |     | CARTILAGE RESURFACING TECHNIQUE/CT     |
| E10 | 36        |     | CARTILAGE RUPTURE/CT                   |
| E11 | 1         |     | CARTILAGE RUPTURE: ET, ETIOLOGY/CT     |
| E12 | 1         |     | CARTILAGE RUPTURE: PC, PREVENTION/CT   |

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

=> s cartilage regeneration  
L13 636 CARTILAGE REGENERATION

=> s l13 and TP508  
L14 2 L13 AND TP508

=> d l14 ti abs ibib tot

L14 ANSWER 1 OF 2 USPATFULL on STN

TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor

AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:344424 USPATFULL  
TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Stiernberg, Janet, Paris, TX, UNITED STATES  
Bergmann, John, Galveston, TX, UNITED STATES  
PATENT ASSIGNEE(S): Univ. of Texas System, Board of Regents, Austin, TX, UNITED STATES, 78701 (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2002198154  | A1   | 20021226      |
| APPLICATION INFO.:    | US 2002-50688  | A1   | 20020116 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-909348, filed on 19 Jul 2001, PENDING |      |               |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-219800P  | 20000720 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133 |               |
| NUMBER OF CLAIMS:     | 28   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| LINE COUNT:           | 862  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 2 OF 2 USPATFULL on STN

TI Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor

AB Disclosed is a method of stimulating cartilage growth, repair or regeneration at a site in a subject in need of such growth, repair or regeneration. The method comprises the step of administering a therapeutically effective amount of an agonist of the non-proteolytically activated thrombin receptor to the site.

Also disclosed is a method of stimulating the proliferation and expansion of chondrocytes in vitro. The method comprises culturing chondrocytes in the presence of a stimulating amount of an NPAR agonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:78716 USPATFULL  
TITLE: Stimulation of cartilage growth with agonists of the non-proteolytically activated thrombin receptor  
INVENTOR(S): Carney, Darrell H., Dickinson, TX, UNITED STATES  
Crowther, Roger S., League City, TX, UNITED STATES  
Stiernberg, Janet, Paris, TX, UNITED STATES  
Bergmann, John, Galveston, TX, UNITED STATES  
PATENT ASSIGNEE(S): The Board of Regents, The University of Texas System (U.S. corporation)

|                     | NUMBER         | KIND | DATE         |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002042373  | A1   | 20020411     |
| APPLICATION INFO.:  | US 2001-909348 | A1   | 20010719 (9) |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-219800P  | 20000720 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | Carolyn S. Elmore, HAMILTON, BROOK, SMITH & REYNOLDS, P.C., Two Militia Drive, Lexington, MA, 02421-4799 |               |
| NUMBER OF CLAIMS:     | 21   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| LINE COUNT:           | 836  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.